

KRUEGER ENTERPRISES, INC. PRD 982. GEOCHRON LABORATORIES DIVISION

24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617) - 876 - 3691

STABLE ISOTOPE RATIO ANALYSES

REPORT OF ANALYTICAL WORK

Submitted by:

Law Engineering Testing Co.

2749 Delk Road

Marietta, GA 30067

Date Received: 4/4/84

Date Reported: 4/10/84

Your Reference: Job #GS3223

Work Order #11693

Ponce Waste Facility (EPA ID #PRD 980594709)

Our Lab. Number

Your Sample

Number

Description

Analysis*

6S34

HSCOR-29246

Monitoring Well #8 Water Resampled

+ 7.4



*Unless otherwise noted, all analyses are reported in ‰ notation and are computed as follows:

x 1000

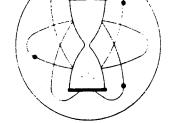
Where:

standard is SMOW standard is PDB O¹⁸/O¹⁶ standard is SMOW

S34/S32 standard is Cañon Diablo troilite R_{standard} = 0.000316** $R_{standard} = 0.011237$ R_{standard} = 0.0039948** R_{standard} = 0.0450045

And:

^{**}Double atom ratio



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δD

HSCOR-29246

Monitoring Well #8 Water Resampled

-19

$$\delta R_{\text{sample}} \% = \begin{bmatrix} R_{\text{sample}} \\ R_{\text{standard}} \end{bmatrix} - 1 \times 1000$$

Where:

D/H standard is SMOW C^{13}/C^{12} standard is PDB O^{18}/O^{16} standard is SMOW

 S^{34}/S^{32} standard is Cañon Diablo troilite

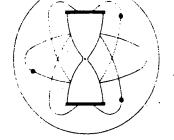
R_{standard} = 0.000316** R_{standard} = 0.011237

And:

R_{standard} = 0.0039948 • • R_{standard} = 0.0450045

**Double atom ratio

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Our Lab. Number Your Sample

Number

Description

Analysis*

- ,					6534	
HSCOR-29008	Monitoring	g Well	#2	Sulfate	-3.8	
HSCOR-29009	II .	. 18	#3	11	-8.0	
HSCOR-29010	11	H	#4	11	-15.8	
HSCOR-29011	. #	10	#6	11	-9.9	
HSCOR-29012	H	11	#7	11	-11.3	
HSCOR-29013	u	10	#8	19	+17.9	
HSCOR-29014	Drilling W	Nater			+2.1	

$$\delta R_{\text{sample}}$$
 = $\left[\frac{R_{\text{sample}}}{R_{\text{standard}}}\right] \times 1000$

Where:

D/H standard is SMOW C^{13}/C^{12} standard is PDB O^{18}/O^{16} standard is SMOW

S³⁴/S³² standard is Cañon Diablo troilite

R_{standard} = 0.000316**

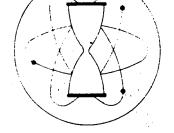
And:

 $R_{standard} = 0.011237$

R_{standard} = 0.0039948 • • R_{standard} = 0.0450045

**Double atom ratio

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Our Lab. Your Sample Number Number		Description	• Analysis [*]
		•	8S ³⁴
	•		
SHOR-29015 S-1		Sulfate From Surface Water	+7.4
•	016 S-2	16 14	too small
	017 S-3	H H	+8.9
	018 / S-4	n n	too small
	019 S-5	it u	-0.2
SHOR-29		11	+6.1

x 1000 And:

Where:

standard is SMOW D/H C13/C12 standard is PDB O¹⁸/O¹⁶ standard is SMOW standard is Canon Diable troilite

R_{standard} = 0.000316** $R_{standard} = 0.011237$

R_{standard} = 0.0039948**

R_{standard} ≈ 0.0450045

~~Double atom ratio

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